OIPE
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PATENT & TRADEMARK OFFICE

FIG. 1

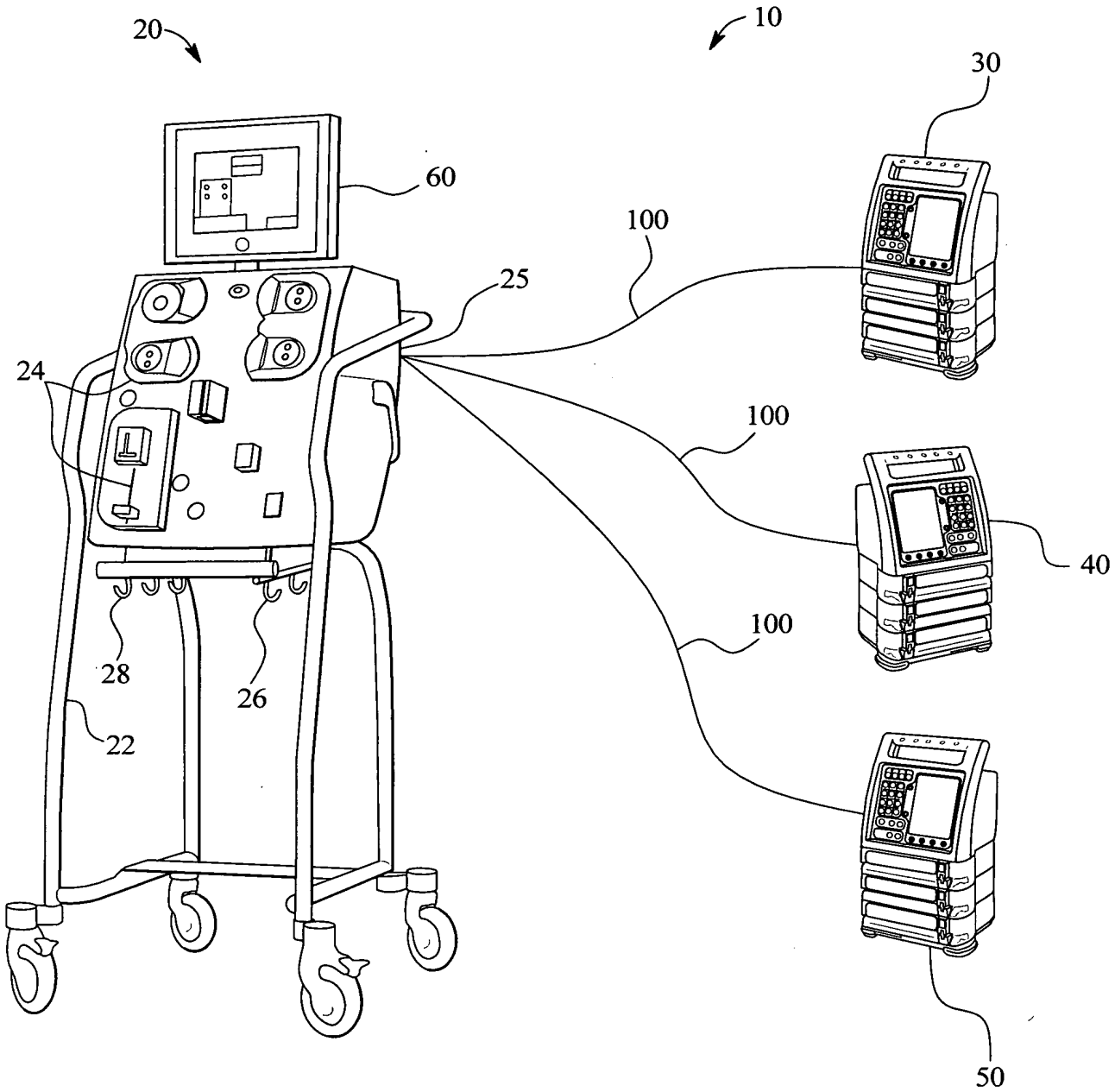

FIG. 2

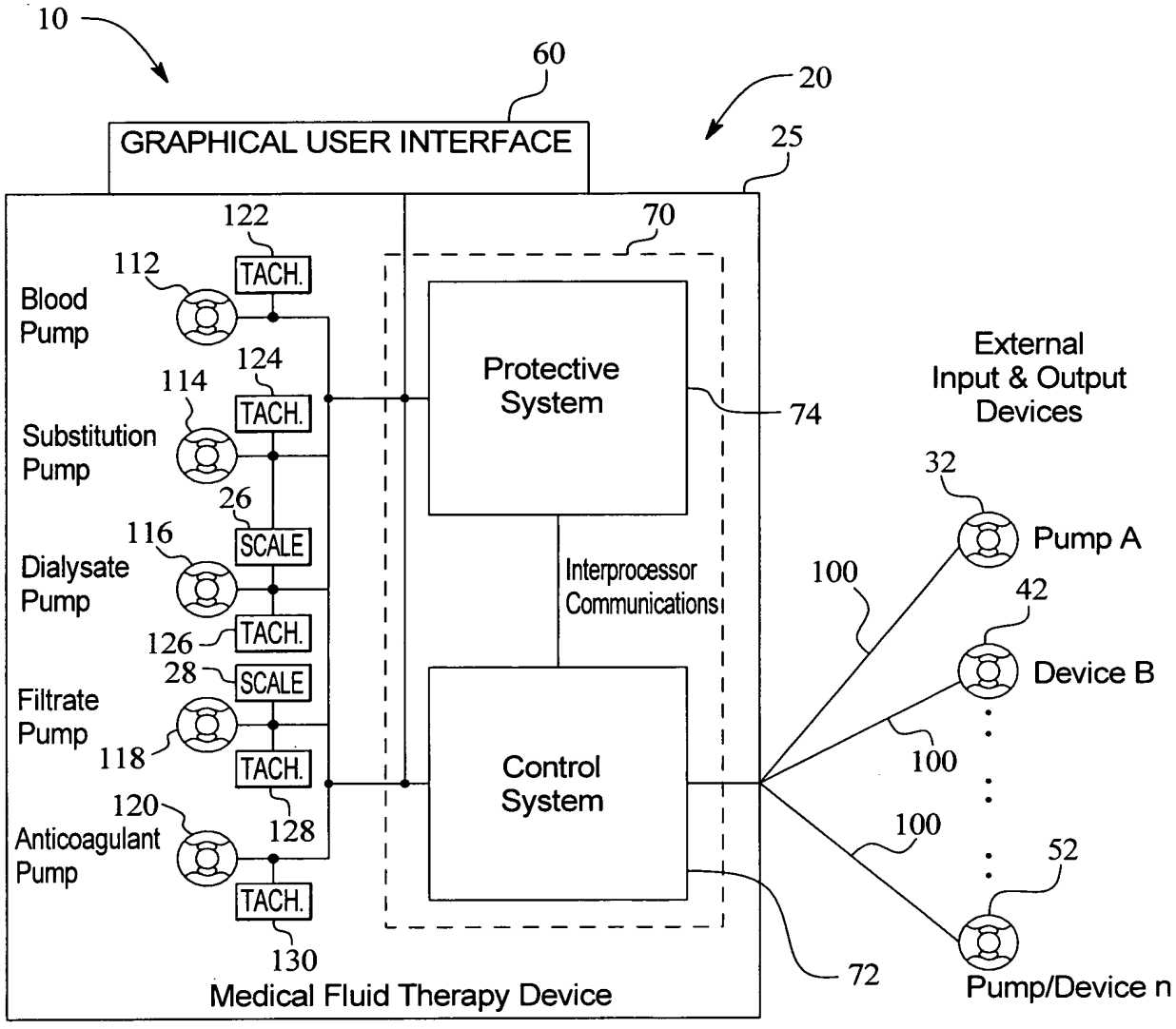
10
60
20
GRAPHICAL USER INTERFACE
25
122
70
112
TACH.
Blood Pump
124
114
TACH.
Substitution Pump
26
116
SCALE
Dialysate Pump
126
TACH.
28
SCALE
Filtrate Pump
118
TACH.
120
128
Anticoagulant Pump
TACH.
130
Protective System
74
Interprocessor Communications
Control System
72
Medical Fluid Therapy Device
External Input & Output Devices
32
Pump A
100
42
Device B
100
100
52
Pump/Device n

FIG. 3

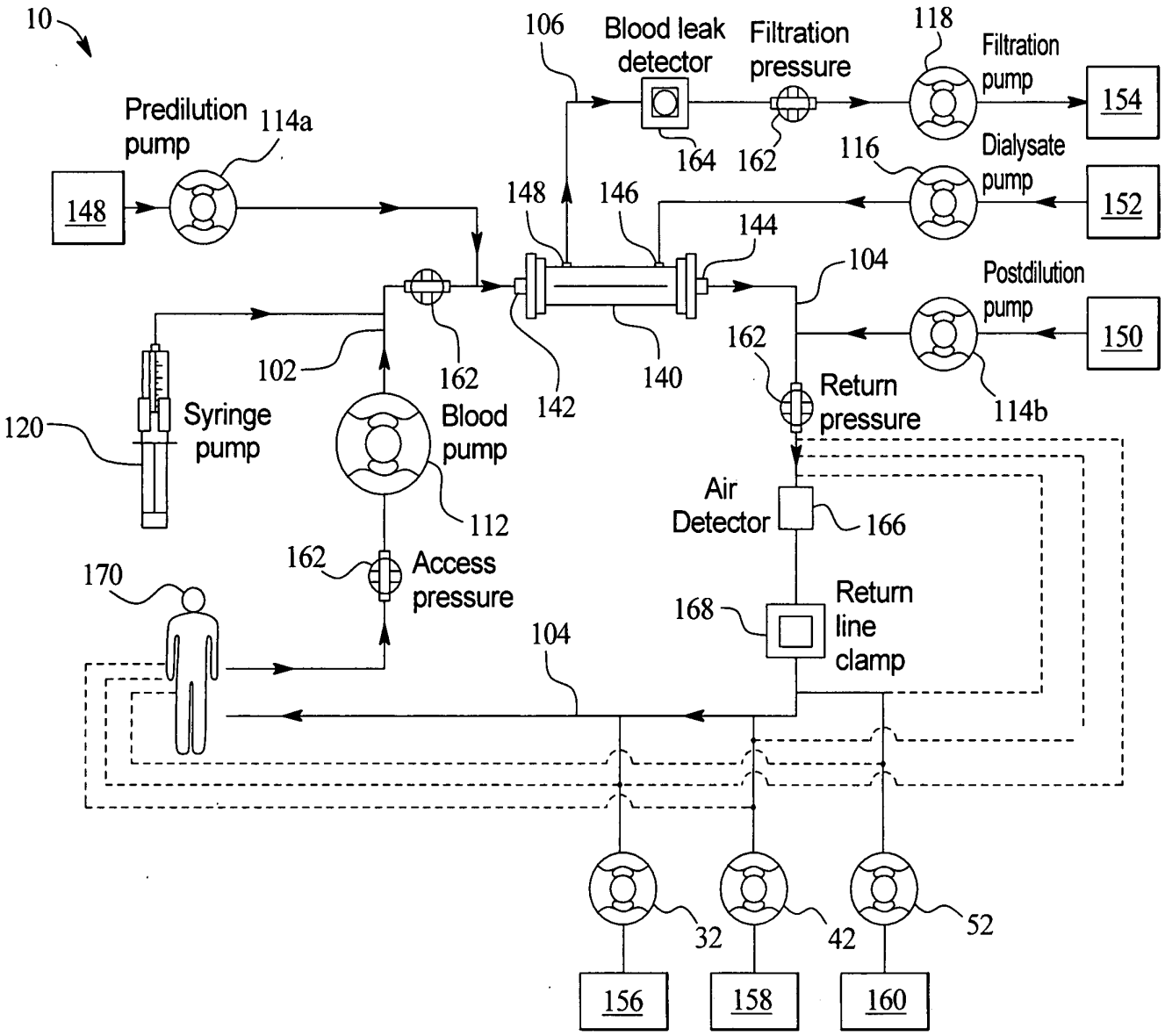
10
106
Blood leak detector
Filtration pressure
118
Filtration pump
154
Predilution pump
114a
148
164
162
116
Dialysate pump
152
148
146
144
104
Postdilution pump
150
102
162
142
140
162
Return pressure
114b
120
Syringe pump
Blood pump
112
Air Detector
166
162
Access pressure
170
168
Return line clamp
104
32
42
52
156
158
160

FIG. 4

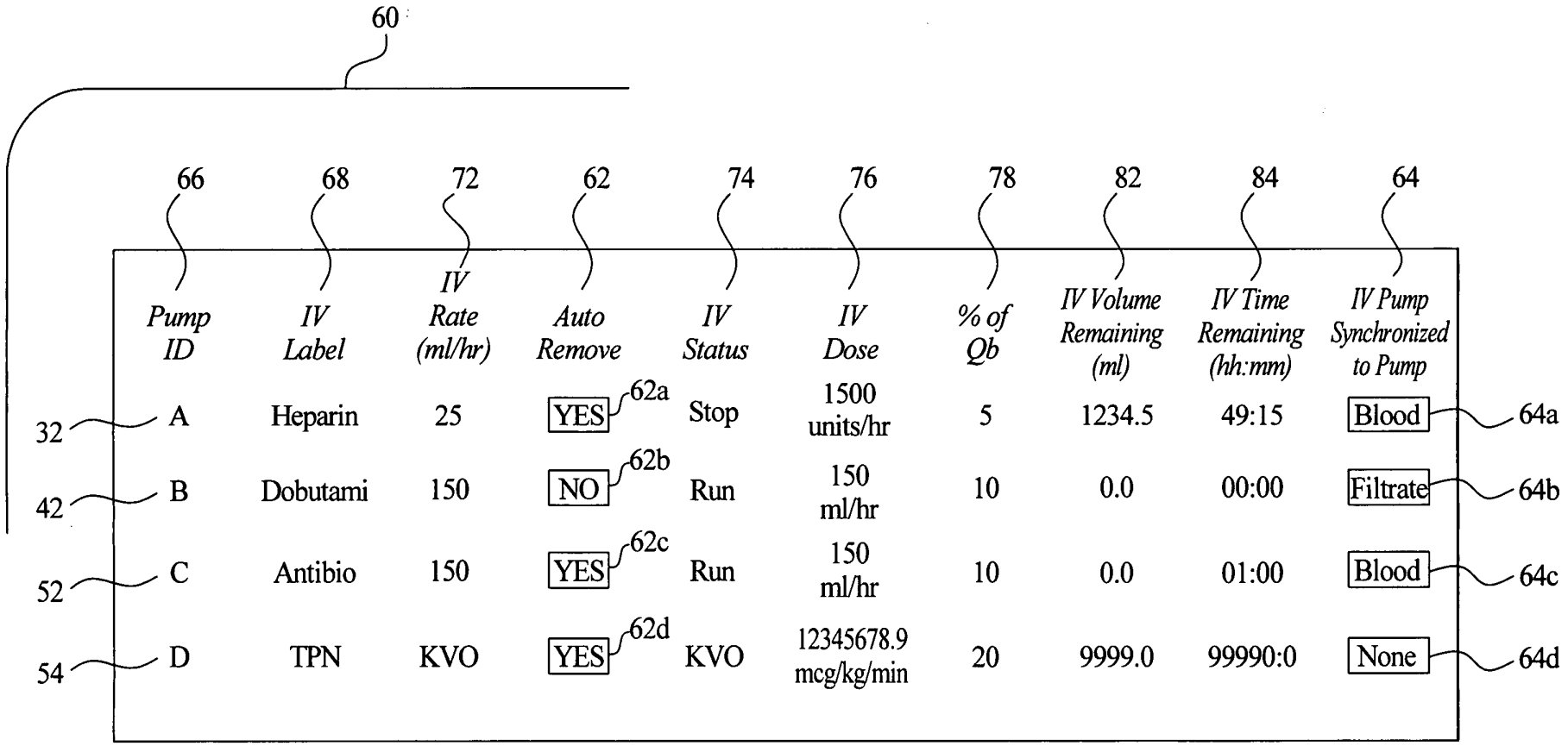
60
66
68
72
62
74
76
78
82
84
64
Pump ID
IV Label
IV Rate (ml/hr)
Auto Remove
IV Status
IV Dose
% of Qb
IV Volume Remaining (ml)
IV Time Remaining (hh:mm)
IV Pump Synchronized to Pump
32
A
Heparin
25
YES
62a
Stop
1500 units/hr
5
1234.5
49:15
Blood
64a
42
B
Dobutami
150
NO
62b
Run
150 ml/hr
10
0.0
00:00
Filtrate
64b
52
C
Antibio
150
YES
62c
Run
150 ml/hr
10
0.0
01:00
Blood
64c
54
D
TPN
KVO
YES
62d
KVO
12345678.9 mcg/kg/min
20
9999.0
99990:0
None
64d

FIG. 5

	172 Fluid Source Description	174 Input (+) or Output (-)	176 Rate ml/Hr	178 Auto or Entered	182 Calculated Total Input:	184 Calculated Total Output:	186 Calculated Filtrate Pump Rate:
86	Prescribed Gain or Loss	Loss (-)	300.0	Entered	+950	-200 ml/hr	1050 ml/hr
87	Subsituation Fluid	Input (+)	490.0	Entered			
88	Pump A	Input (+)	25.0	Auto			
89	Dialysate	Input (+)	0.0	Entered			
90	Pump B	Input (+)	125.0	Auto			
92	Pump C	Input (+)	125.0	Auto			
94	Pump D	Input (+)	185.0	Auto			
96	Urine Output	Output (-)	50.0	Entered			
98	Scale AA	Output (-)	150.0	Auto			

Check Rate Entries:
Negative Filtrate Pump Rate Not Accepted — 188

Cancel Values — 190

Accept Values — 192

194

△ Press and Hold to Increases an Input or Decrease an Output

▽ Press and Hold to Increases an Output or Decrease an Input

ENTER Press To Enter Value Shown Above and Move to Next Pump — 60

Input Positive (Gain) or Negative (Loss) Amount — 196

1	2	3
4	5	6
7	8	9
-	0	+

ENTER